

FIG.1A

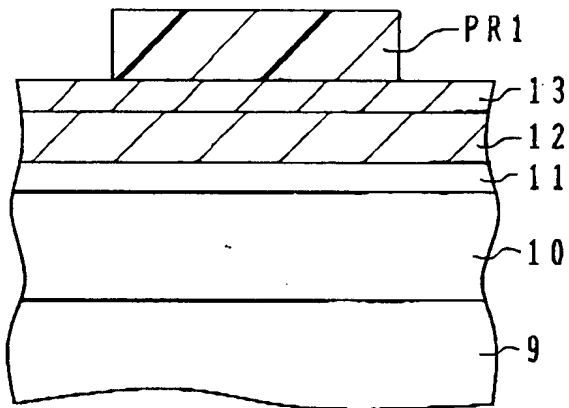


FIG.1C

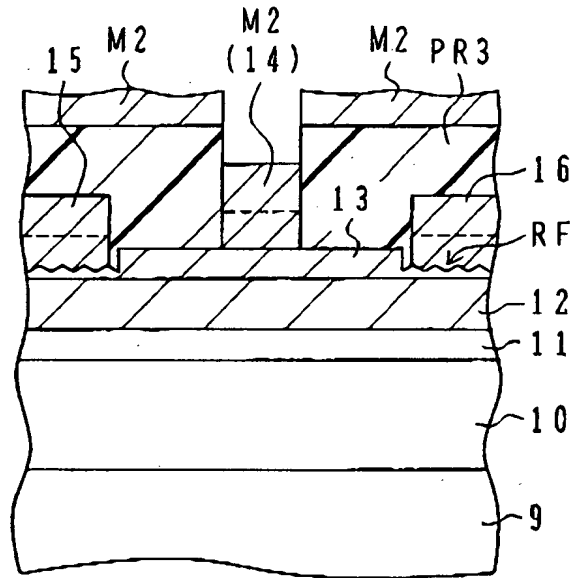


FIG.1B

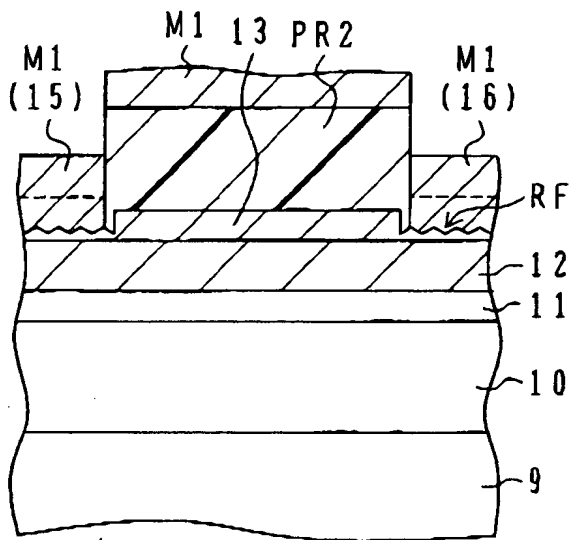


FIG.1D

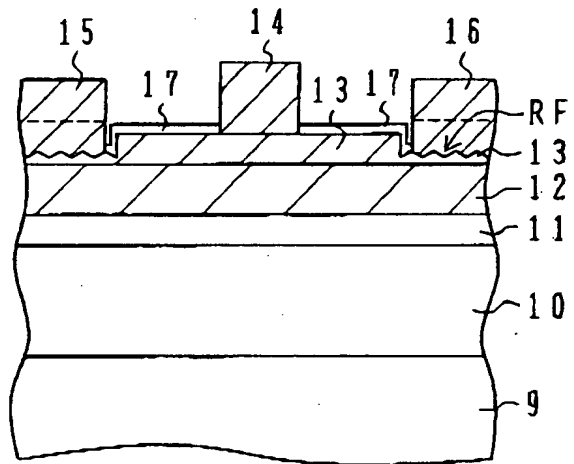


FIG.2A

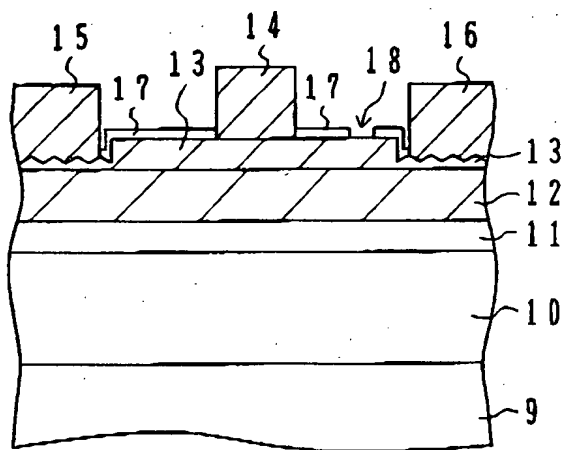


FIG.2B

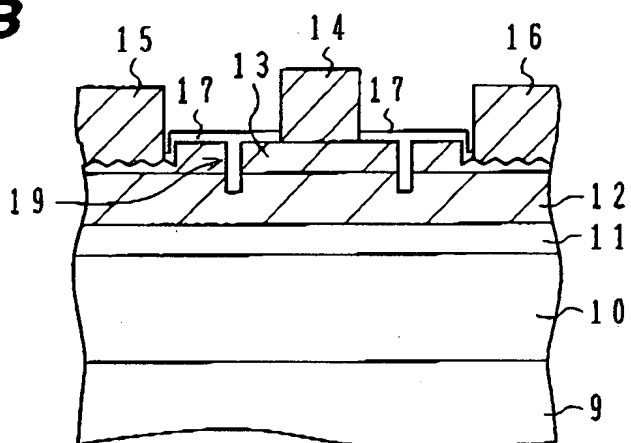


FIG.2C

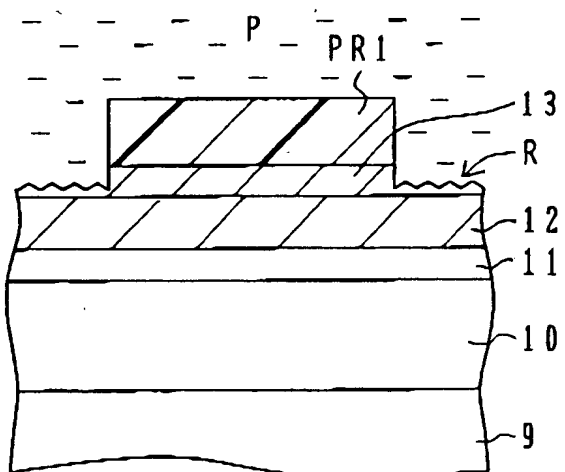


FIG.3

| | RELATED ART (FIG. 8C) | STOP DRY ETCHING AT GaN | |
|--|--|--|--|
| | | WITH LEAK CUT (FIG. 2B) | WITHOUT LEAK CUT (FIG. 1D) |
| CONTACT RESISTANCE | $1 \times 10^{-3} \sim 1 \times 10^{-1} \Omega \text{cm}^{-2}$ | $7 \times 10^{-6} \sim 3 \times 10^{-5}$ | $7 \times 10^{-6} \sim 3 \times 10^{-5}$ |
| ON-RESISTANCE | 12Ωmm | 6~8 | 6~8 |
| TWO-TERMINAL REVERSE CURRENT @100 V | 100μA/mm | 1 | 50 |
| 8m | 140mS/mm | 220 | 220 |

FIG.4A

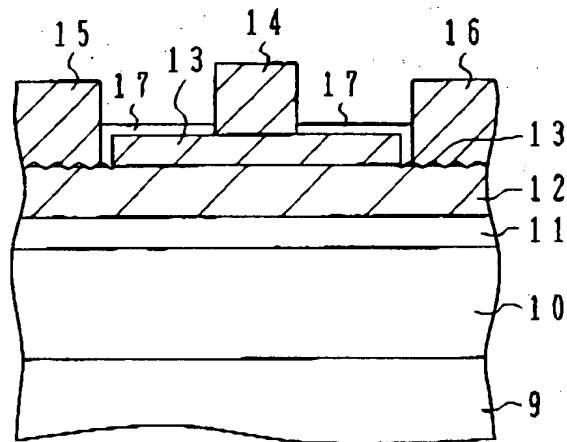


FIG.4B

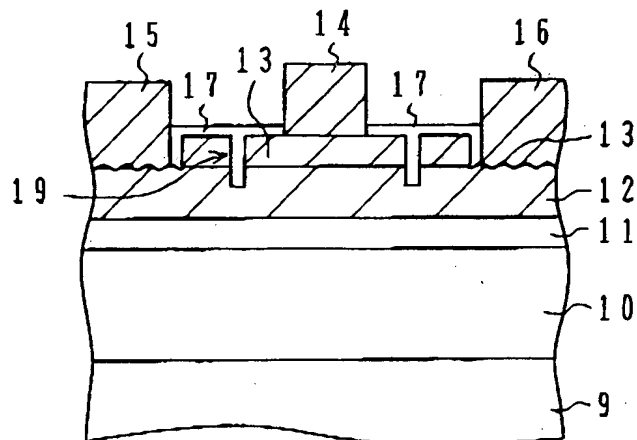


FIG.5

| | RELATED ART (FIG. 8C) | STOP DRY ETCHING AT INTERFACE BETWEEN AlGa _N AND Ga _N | |
|--|--|--|--|
| | | WITH LEAK CUT (FIG. 4B) | WITHOUT LEAK CUT (FIG. 4A) |
| CONTACT RESISTANCE | $1 \times 10^{-3} \sim 1 \times 10^{-4} \Omega \text{cm}^{-2}$ | $5 \times 10^{-6} \sim 1 \times 10^{-5}$ | $5 \times 10^{-6} \sim 1 \times 10^{-5}$ |
| ON-RESISTANCE | 12 Ωmm | 6~7 | 6~7 |
| TWO-TERMINAL REVERSE CURRENT @100 V | 100 $\mu\text{A/mm}$ | 1 | 50 |
| 8 m | 140 mS/mm | 250 | 250 |

FIG.6A

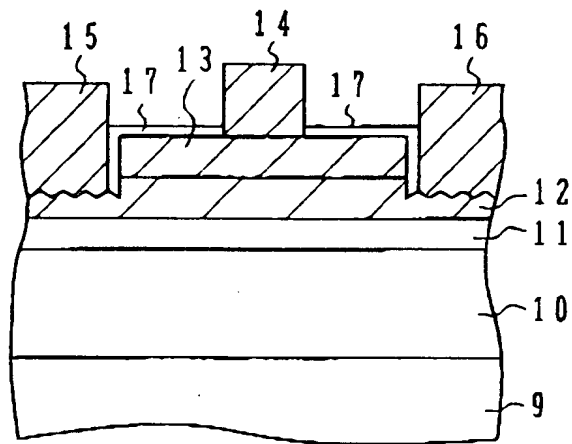


FIG.6B

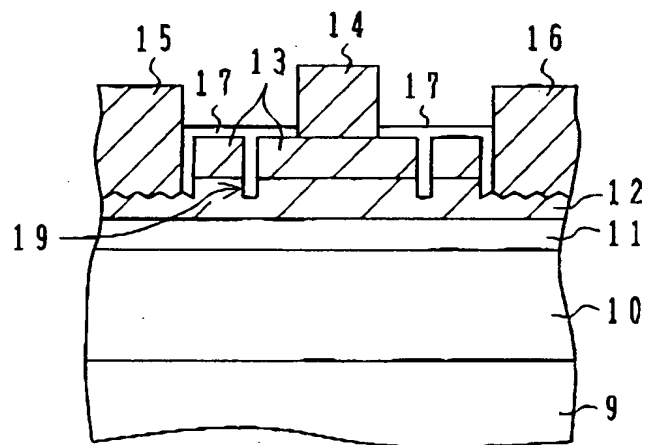


FIG.7A

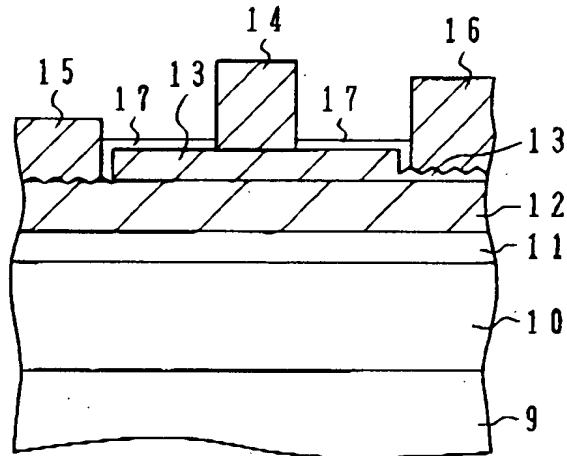


FIG.7B

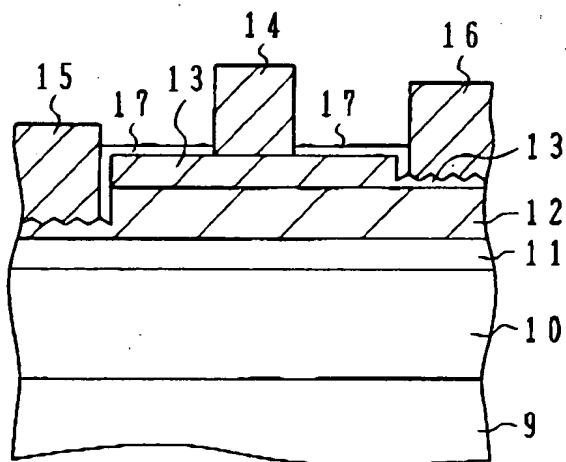


FIG.8A
PRIOR ART

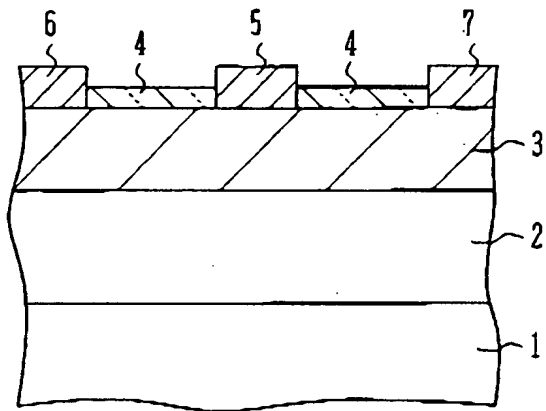


FIG.8B
PRIOR ART

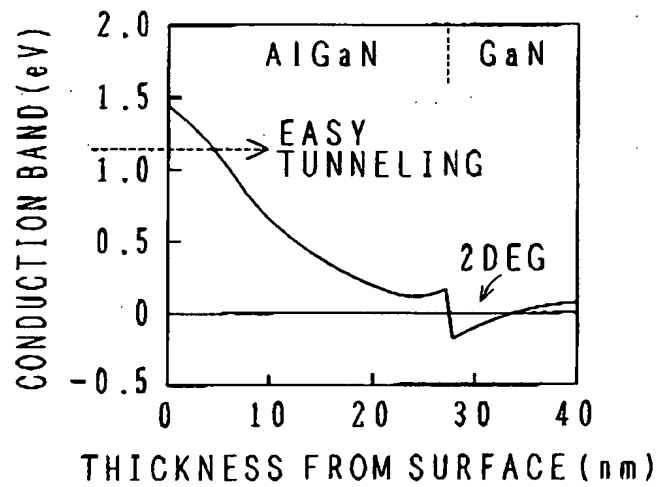


FIG.8C
RELATED ART

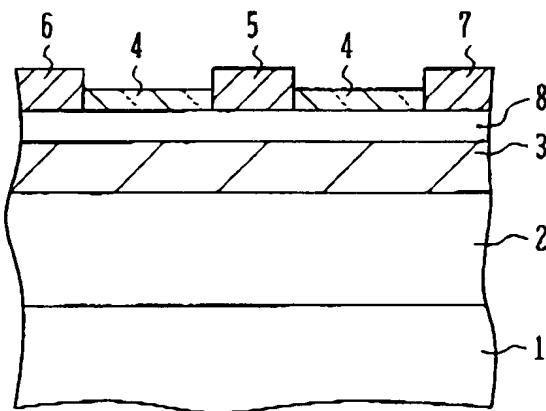


FIG.8D
RELATED ART

